

ABSTRACT OF THE DISCLOSURE

A method for depth-resolved optical detection of a specimen comprises the steps of providing a scanning movement over the specimen or at least a part of the specimen of an illumination light distribution of at least one wavelength which is generated on or in the specimen, providing detection particularly of the light which is influenced based on interaction with the specimen, especially fluorescent light and/or reflected light and/or luminescent light and/or scattered and/or transmitted light, the illumination light having a modulation in at least one spatial direction, and carrying out the scanning movement and detection associated with the scanning with the scanning movement at least in a first and a second different phase position of the modulation and/or first and second frequency of the periodicity of the modulation and calculating at least one optical section image through the specimen or through part of the specimen. Other methods and arrangements are disclosed.